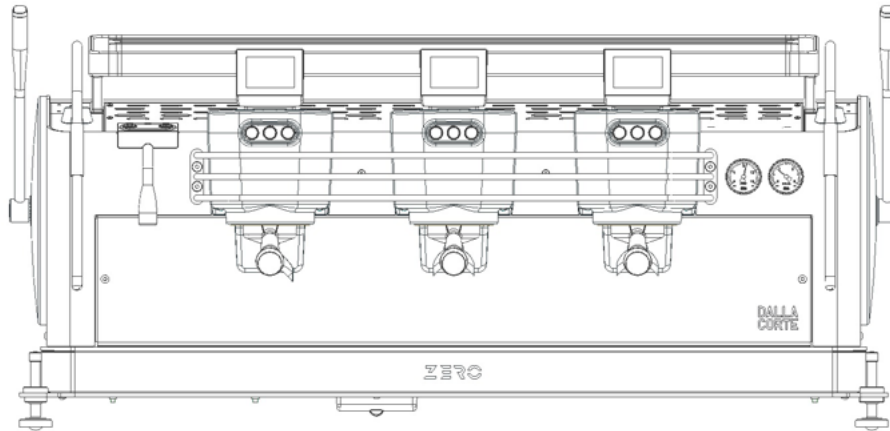


# DALLA CORTE

## ESPRESSO COFFEE MACHINES "ZERO CLASSIC"

ENG



### OPERATING INSTRUCTIONS



# REVISION

MODEL	ISSUE	DATE	REVISION	DATE	NOTES
"ZERO CLASSIC"	0.0	10/2020	00		

Congratulations on your purchase of the **DALLA CORTE s.r.l.** Espresso coffee machine "Zero Classic". Before using the machine, we advise you to read carefully this instruction manual which explains how to use the machine correctly. For any other requests or explanations, please contact your dealer or **DALLA CORTE s.r.l.** directly.

The reproduction and /or distribution of this Manual, in whole or in part, under any form and without the written consent of **DALLA CORTE s.r.l.** is strictly prohibited.

**DALLA CORTE s.r.l.** reserves the right to modify, without prior notice, the characteristics of the appliance described in this Manual.

In case of doubts or difficulty in understanding or interpreting this Document, the original/official version indicated as "ISTRUZIONI ORIGINALI" on the cover is deemed authentic.

The contents of this Manual have been thoroughly checked in order to assure they correspond to the machine described in this Manual.

Some of the images included in this Manual should only be considered as an example.



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# STRUCTURE OF THE MANUAL

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This Manual is divided into 6 chapters.

## **CHAPTER 1 - GENERAL**

This chapter gives the general information concerning the structure of this manual.

## **CHAPTER 2 - SAFETY**

This chapter gives the description of the working principles and gives the general technical data.

## **CHAPTER 3 - GENERAL DESCRIPTION**

This chapter gives the description of the working principles and gives the general technical data.

## **CHAPTER 4 - TRANSPORT AND INSTALLATION**

This chapter gives the instructions for transport and installation of the machine.

## **CHAPTER 5 - USE**

This chapter contains the instructions for commissioning and using the machine. It describes the various machine controls as well as the most important operating sequences and how to use of the diagnostic systems.

## **CHAPTER 6 - MAINTENANCE**

This chapter provides information on the maintenance work to be performed on the machine.

---

# 1. GENERAL

---

## 1.1 INTRODUCTION




**Della Corte s.r.l.** thanks you for having purchased its product.

Before using the machine, we advise you to read carefully this instruction manual in order to use and maintain it correctly.

In case of doubts or further explanations, please contact your dealer or Dalla Corte After-Sale Service.

Please keep this instruction manual in a safe place for further consultation. For any possible information or problems, please contact the competent personnel.

### 1.1.1 Symbols

SYMBOL	MEANING	NOTES
	DANGER	Indicates a risk of accident/injury for the user. Pay maximum attention to the texts preceded by this symbol.
	ATTENTION	It warns against a possible deterioration /damage to the machine. Pay maximum attention to the texts preceded by this symbol
	WARNING NOTE	It is a warning for some key functions or useful information. Pay maximum attention to the texts preceded by this symbol.

The manufacturer assumes no liability for any possible damage resulting from:

- Use of the machine not in accordance with the intended purposes;
- Tampering with the power cord;
- Tampering with any other parts of the machine;
- Use of non-genuine spare parts or accessories;
- Repair not performed by the authorized service centers;



The product meets the requirements on labelling established by the RAEE Directive [2002/96/CE]. The symbol (a barred rubbish bin) indicates that this product must not be disposed of in a container for household waste. PRODUCT CATEGORY with reference to types of equipment indicated in Annex 1 of the RAEE Directive: this product belongs to category 2 "Small household appliances".

**DO NOT DISPOSE OF IN A HOUSEHOLD WASTE CONTAINER.**

Failure to comply with the guidelines above will make the guarantee null and void.

## 1.2 WARNINGS

- Keep all components of the packaging (plastic bags, polystyrene foam, nails, cardboards, etc...) out of reach of children. This material is a potential source of risk.
- Before connecting the machine, make sure that the plate data correspond with data of the electric distribution network.
- Do not expose the machine to bad weather. Do not install the machine in high humidity environments.
- The packaged machine is to be stored in a place sheltered from bad weather, dry and without moisture. The storage temperature must not be below +5°C.
- In case of doubts, have the electric installation checked by qualified personnel only. The installation must meet the requirements of the current safety regulations (effective grounding, section of conductors adequate to the consumption power and life-saving circuit breaker).
- The manufacturer will not be held responsible in case of damage to property and persons, caused by wrong installation or use.
- For part replacement, please contact a concessionaire or an authorized dealer. Only genuine parts are to be used.
- Do not stack more than 3 packages of the same type. Do not stack packages of different type on the package.
- The packages can be stacked for a maximum of three pieces of the same type. Do not stack heavy packages of other types on top of the packaging.
- It is advisable not to use adapters, multiple plug sockets and/or electrical extension cords. If their use becomes indispensable, it will be necessary to use products with certified quality (type IMQ, VDE, +s, etc...) and check that the power value stamped on them is higher than the power consumption [A = amperes] of the appliance connected to the mains.

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## 2. SAFETY

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## 2.1 GENERAL INFORMATION

The User is obliged to inform and instruct the personnel on the accident risks, the safety devices installed on the machine as well as on the general accident prevention rules according to EU Directives and the national legislation of the country where the machine is installed.

The operators must know the position and operation of all machine controls and their relevant characteristics.

The operators must carefully read and understand the contents of this Manual.

Tampering with machine components, replacing them without authorization, using accessories capable of modifying the machine use as well as using non genuine parts can cause the risk of accidents.



---

### **DANGER**

It is strictly forbidden to exclude/tamper with the safety devices installed on the machine. The Manufacturer cannot be held responsible for the machine safety if this obligation is not respected.

---

### 2.1.1 Machine certification

The machine is accompanied by the Declaration of Conformity CE. This document certifies that the machine meets the essential safety requirements requested by the Machine Directive 2006/42/CE (Annex II A) and the Electromagnetic Compatibility Directive 2014/30/EU.



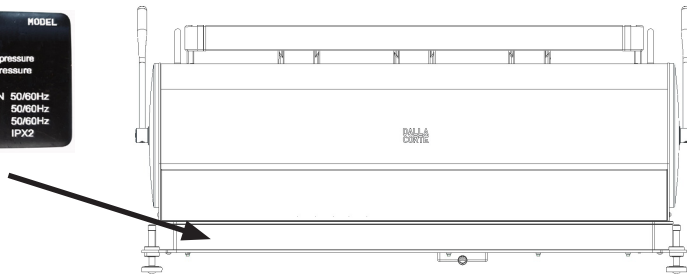
#### NOTE

Any unauthorized modifications to the machine will void the CE certification issued by the Manufacturer.



#### NOTE

The image below shows the emplacement of the CE plate which indicates the main machine identification data.



## 2.2 INTENDED AND NON INTENDED USE

This machine has been designed and manufactured for professional use by qualified personnel. It can:

1. Dispense single or double doses of coffee powder.
2. Dispense single or double milk-based doses: cappuccino, coffee macchiato , milk, milk macchiato.
3. Dispense hot water: tea.
4. 4. Dispense hot steam (steam wand).



---

### DANGER

The usage of the machine for purposes other than those described in this Manual is considered an **IMPROPER USE**. The Manufacturer disclaims any liability in case of tampering with the machine, non-authorized modifications to the machine or maintenance operations performed by non-qualified personnel.

The Manufacturer disclaims any liability for damage to persons or property resulting from improper use of the machine and considers void any form and type of guarantee.

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### DANGER

In case of anomalous behavior of the machine or power supply failure, it is strictly forbidden to perform any operations on the machine.

Only qualified maintenance personnel are authorized to operate on the machine.

---

2.3 SAFETY INSTRUCTIONS

- Check that the electrical data indicated on the CE plate corresponds with the main electrical supply data to which the machine will be connected.
- Place the machine on a flat, horizontal and stable surface.
- The machine must be installed in premises indicated in the "GENERAL DESCRIPTION" section.
- Connection to the water supply is to be performed by a qualified technician in accordance with current laws.
- Water pressures and temperatures are indicated in the "GENERAL DESCRIPTION" section.
- The machine described in this Manual has been designed and manufactured for dispensing coffee-based drinks, hot water and steam for hot beverages. Any other use is to be considered an improper and hazardous use. The Manufacturer disclaims any liability for damage resulting from improper or wrong use of the machine.
- Before plugging the machine into the electric network, please make sure that the rated capacity and power are suitable for maximum energy consumption indicated on the machine.
- Do not install the machine near possible water jets or heat sources.
- The use and maintenance of the machine must be only performed by qualified personnel.
- We advise you not to use adapters or extension cords other than those advised by the manufacturer since they could damage the machine.
- Do not use the machine if the power cord, the plug or any other parts of the machine are damaged. In case of malfunctioning, contact the Manufacturer.

- Please adopt all precautions in order to protect the machine against electrical troubles:
  1. Do not perform any maintenance operations and/or transport with the machine plug inserted into socket or if the machine is hot.
  2. Do not remove the plug by pulling the power cord.
  3. Do not use the machine if the power cord is damaged.
  4. Do not touch the machine with wet hands.
  5. Do not turn the package and the machine upside down nor lie it on its side.
  6. Do not wash the machine using direct water jets (under pressure or with steam).
  7. Do not immerse the machine in water or in any other liquids.
  8. This appliance is not intended for use by persons (including children) with reduced physical, mental or sensory capabilities or lack of experience and knowledge unless they have been instructed on how to use the machine, unless they are supervised by a person responsible for their safety. Supervise children to prevent them from playing with the appliance. The cleaning and maintenance operations of the appliance must be performed by the user and not by children over eight years of age without supervision.
  9. Do not place any containers of liquids over the machine.



---

**DANGER**

Do not install nor use the machine if it is wet or very humid. Wait until you are sure the appliance is completely dry. Before installing or using it, the machine must be thoroughly checked by the maintenance personnel to make sure that the electric components are not damaged.

---

- For correct operation, the machine must be used in premises with temperature between +5°C and 30°C.
- Always use genuine parts and accessories certified by the Manufacturer.
- In case of defective working, damaged parts of the machine or if it stops working, switch it OFF and disconnect it from mains. Do not attempt to repair the machine. The machine must be repaired by a Manufacturer's qualified technician.
- The rear boiler and the pump are equipped with thermal switches which stop the heating process in case of failure or overheating.
- Do not obstruct the suction grids and/or heat dissipation grids, in particular the cup warming pad.
- Before performing any cleaning or maintenance operations, switch Off the machine and disconnect power cord.
- In case of prolonged storage at temperatures below 2°C, empty the hydraulic circuit of the appliance. Before switching On the machine, let it stay at least one hour in a place at ambient temperature.
- Access to the service zones is allowed only to experienced personnel, in particular with regard to safety and hygiene.

**ATTENTION**

As a precautionary measure, periodically check correct fastening of all safety devices. It is strictly forbidden to carry out modifications to the machine in order to prevent additional risks.

## 2.4 WORKING ENVIRONMENTAL CONDITIONS

### 2.4.1 Fire prevention system

The machine is not equipped with its own fire prevention system.

No flammable liquids circulate freely in the machine.

The Customer must evaluate the need to implement an appropriate fire prevention installation near the machine installation place in accordance with the safety regulations and fire prevention regulations in force in the country where the appliance is installed.

### 2.4.2 Vibrations

The machine is equipped with rubber anti-vibration pads. Under standard working conditions, the machine does not generate vibrations which can be harmful to persons and/or property.



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#### ATTENTION

Any excessive vibrations can only be caused by a mechanical failure. This condition must be immediately signaled and eliminated in order not to jeopardize the safety of the machine and of personnel charged with the machine exploitation.

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2.4.3 Noise level

Noise level has been measured in accordance with what indicated by the UNI EN ISO 9614-2 – Acoustic Directive.

The measured data is kept by the Manufacturer.

The acoustic, continuous and weighted pressure level is less than 70 dB.

2.4.4 Electromagnetic emissions

The machine is equipped with electronic components subject to the Electromagnetic Compatibility rule (conducted and radiated emissions).

The machine conforms to the provisions of the Electromagnetic Compatibility Directive (EMC).

The values of emissions are in accordance with the regulation thanks to the use of components which comply with the provisions of the Electromagnetic Compatibility Directive, appropriate connections and installation of filters (where necessary).

## 2.5 RESIDUAL RISKS

### 2.5.1 Fire prevention system

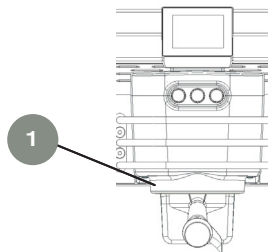
During the design phase, all the zones and hazardous parts have been assessed for residual risks and all possible precautions have been implemented in order to eliminate the risks of injuries to persons and damage to machine components.

### 2.5.2 Residual risks

After thoroughly assessing all possible risks of the machine, all the required precautions have been taken to eliminate these risks and limit the danger to the personnel exposed.

From the risk analysis carried out and stored in the Manufacturer's Technical File, the following residual risk has emerged:

- **Risk of burns** in the lower zone of the coffee dispense unit (1) because of the high temperature it can reach.



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## 3. GENERAL DESCRIPTION

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3.1 MACHINE COMPONENTS

This machine is intended for professional use by qualified personnel.

The machine casing consists of a stainless steel, supporting structure.

The touch screen of the control panel allows dispensing the drinks and programming the machine functions.

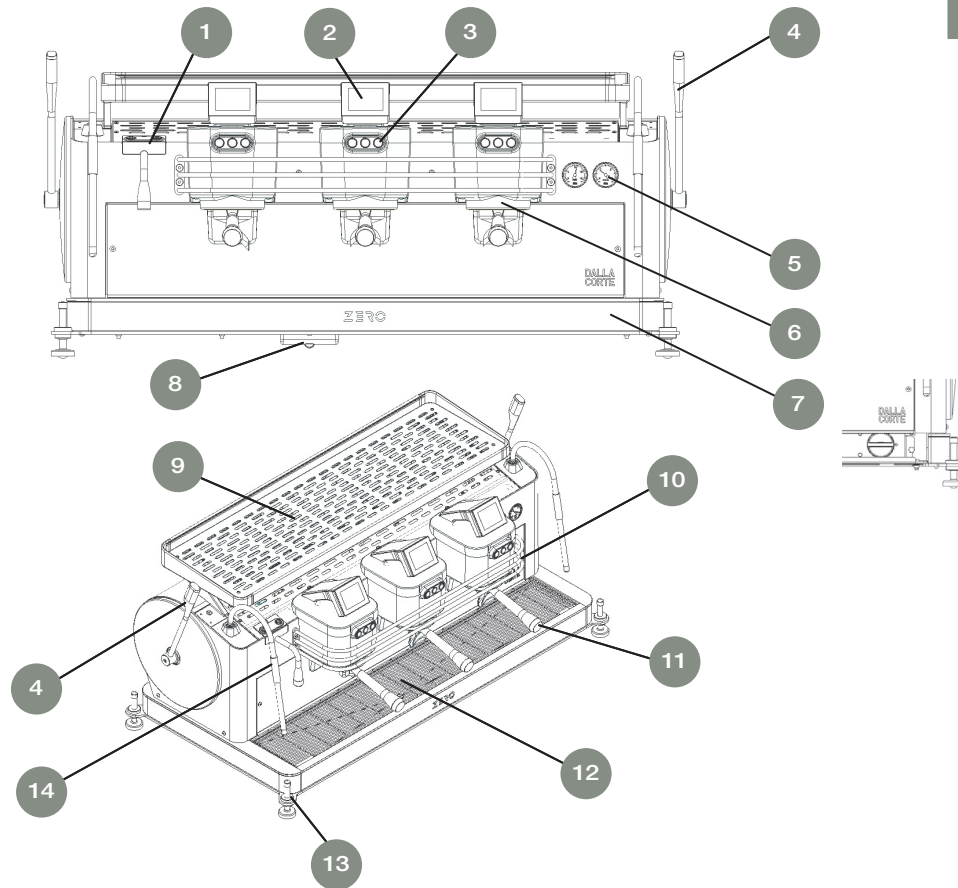
The volumetric pump is used for dispensing the drinks (coffee, hot water) and for boiler loading.

The boiler heats up water for dispensing coffee, hot water and steam.

All functions can be programmed according to the final user needs.

The machine consists of the following parts:

- |   |                                   |    |  |    |                             |
|---|-----------------------------------|----|--|----|-----------------------------|
| 1 | Service keyboard                  | 6  | Coffee dispense unit                     | 11 | Filter holder               |
| 2 | Touch screen                      | 7  | On/Off switch (behind the basin)         | 12 | Basin with cup support rack |
| 3 | Keyboard for coffee dispense unit | 8  | Drain pan                                | 13 | Adjustable feet             |
| 4 | Steam lever                       | 9  | Cup warming pad                          | 14 | Steam dispensing knob       |
| 5 | Boiler and pump manometers        | 10 | Grid for coffee dispense unit protection |    |                             |



GENERAL

SAFETY

GENERAL  
DESCRIPTION

TRANSPORT AND  
INSTALLATION

USE

MAINTENANCE

## 3.2 MACHINE OUTFIT

The following parts are supplied with the machine.

- 3-4 filters / 2 cups H26
- 2 filters / 1 cup H23
- Filter-holder, complete / 1 cup
- 2-3 filter-holders, complete / 2 cups
- Hose, 3/8" L70
- Hose, 3/8" L150
- Shower heads brush
- Spanner for shower head cleaning
- 2-3 grid-type shower heads
- Black spiral tube for water drain
- Cleaning cloth for external surfaces
- Tabletop rubber support for pressing coffee
- Container for cleaning tablets
- Coffee tamper with spanner for adjusting water delivery
- Blind filter

## 3.3 TECHNICAL SPECIFICATIONS

	3 Units	2 Units
<b>Dimensions (l x h x p)</b>	1090 x 525 x 540 mm	862 x 525 x 540 mm
<b>Power supply</b>	220-240 V – 50-60 Hz / 380-400 V - 50-60 Hz	220-240 V – 50-60 Hz / 380-400 V - 50-60 Hz
<b>Weight</b>	110 kg	80 kg
<b>Power</b>	7000 W	7000 W

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## 4. TRANSPORT AND INSTALLATION

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GENERAL

SAFETY

GENERAL  
DESCRIPTION

TRANSPORT AND  
INSTALLATION

USE

MAINTENANCE

## 4.1 TRANSPORT AND INSTALLATION

### 4.1.1 Packing

The machine is transported in wooden crates placed on a pallet. During transport, make sure that the crate is always in the correct position as shown on the external part of the crate.

Spare parts and the relevant technical documentation of the machine are included in the crate. Keep this documentation for further consultation.

Do not turn the crate upside down. Do not lay the packaging on its side.



4.1.2      **Removing the packaging**

Thoroughly check the packaging to make sure that the machine has not been damaged during transport.

Open the top of the crate, remove the accessories and the wooden perimeter of the crate by pulling it upwards. Remove the fastening screws which are beneath the pallet and lift the machine.

Check the integrity of the machine, accessories, power cord and plug. In case of damage of the material, immediately inform the Manufacturer or the dealer.

After unpacking the machine, keep its packaging for further needs of transport. Keep the packaging out of reach of children.

Keep all packaging materials (plastic bags, polystyrene foam, nails, cardboards, etc...) out of reach of children. These materials are a possible source of danger. Do not dispose of packaging material in the environment. Dispose of these materials by entrusting them to specialized bodies.

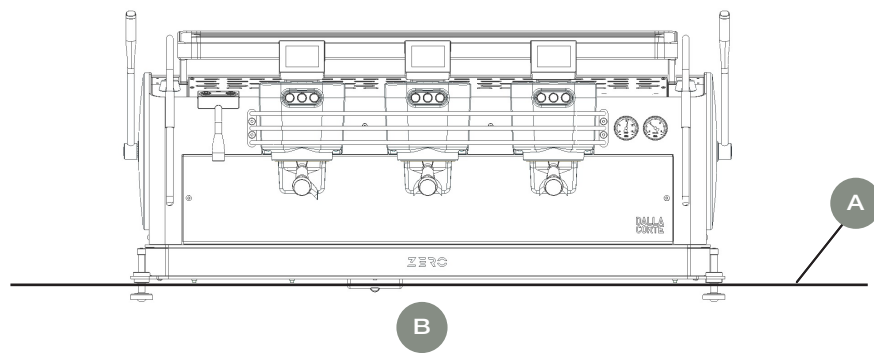
### 4.1.3 Installation

Install the machine on a flat, well levelled, dry and sturdy surface.  
The distance from ground must be at least 80 cm.

It is not advisable to place the machine in niches or similar cavities in order to avoid operational problems, problems of supply and maintenance.

Provide for a slot of at least 100 x 100 mm on the supporting surface **[A]**, mm for connecting the electric and hydraulic installations to the compartment below **[B]**.

The machine is to be installed at a distance of at least 14 cm from walls.



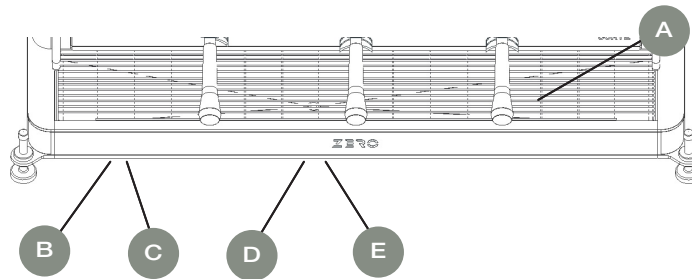
#### 4.1.4 Connection to the water supply

Water coming from the water supply must be softened and have a temperature between +5° C and +45° C.

A shut-off cock is to be installed on the water line for shutting off the water supply source.

In order to carry out water connection, proceed as follows:

1. Remove the cup support grid **(A)**.
2. Connect the machine to the water mains **(B)** by passing the loading pipe 3/8" (included in delivery) through the lower slot of the machine **(C)**.
3. Connect the drain pipe **(D)** (included in delivery) through the slot **(E)**.
4. Re-install the cup support grid **(A)**.



### 4.1.5 Connection to the power supply

The machine is delivered ready for installation according to the nameplate data. Make sure that data of the electric line coincide with those indicated on the machine nameplate.

The machine is supplied without plug, as a fixed installation to the mains is expected. The plug is supplied on demand.

The power supply system must be equipped with a safety switch or a general circuit breaker with efficient grounding.

If no electric safety is installed, a differential, magneto-thermic, bipolar switch should be installed by a qualified technician, as required by the safety regulations in force

Grounding of the appliance is mandatory. The manufacturer will not be held liable in case this obligation is not observed.

Pay attention not to damage the power cord. Do not bend it, do not crush it and do not subject it to stresses.

In order to prevent possible damage, disconnect the machine removing the plug from socket. Do not pull on the power cord.



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#### **DANGER**

Never touch the plug with wet hands.

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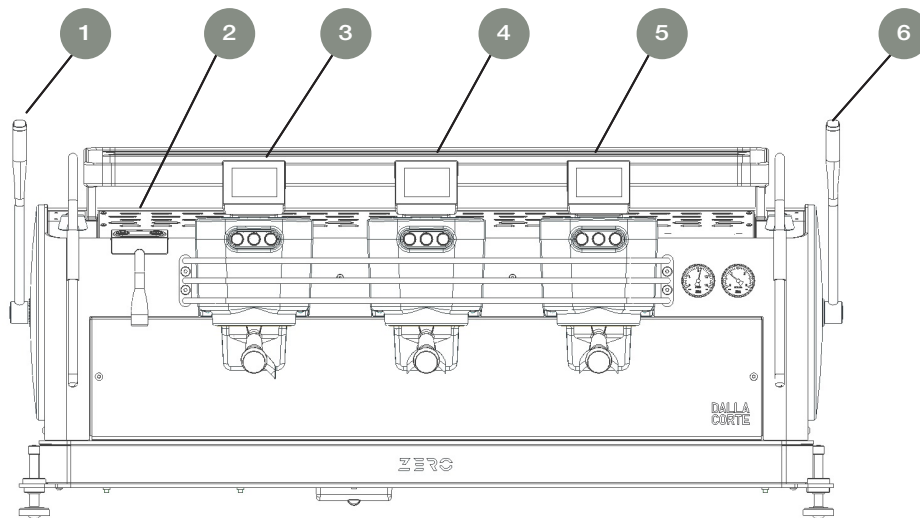
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# 5. USE

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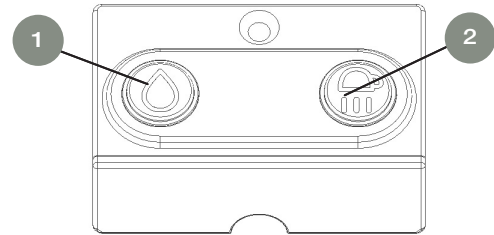
## 5.1 CONTROLS ON MACHINE FRONT

- |   |   |
|---|---|
| 1 Steam lever                               | 4 Button strip for dispensing unit coffee 2 |
| 2 Keypad for functions                      | 5 Button strip for dispensing unit coffee 1 |
| 3 Button strip for dispensing unit coffee 3 | 6 Steam lever                               |



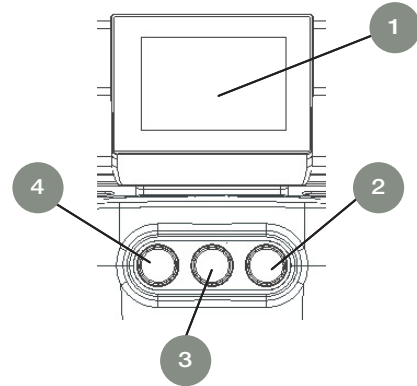
## 5.2 KEYPAD FOR FUNCTIONS

- 1 Hot water button
- 2 Cup warming button



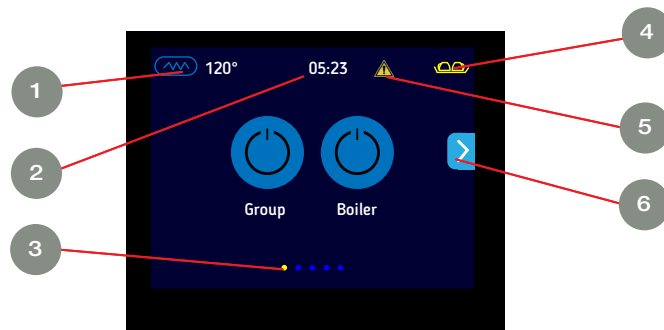
## 5.3 KEYPAD FOR DISPENSING UNIT - COFFEE 1-2-3

- 1 Display
- 2 Selection III button (by default = continuous selection)
- 3 Selection II button (by default = single dose)
- 4 Selection I button (by default = double dose)



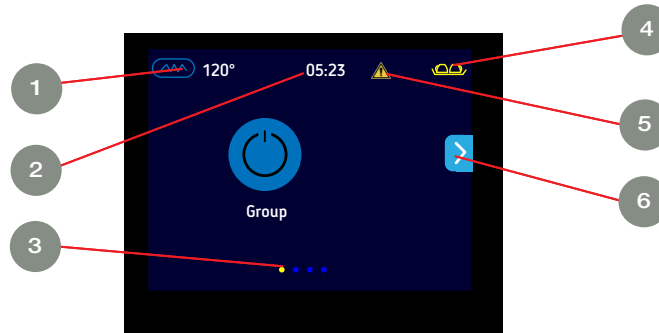
## 5.4 DISPLAY FOR DISPENSING UNIT - COFFEE 1 (MAIN)

- |   |   |   |  |
|---|---|---|--|
| 1 | Light indicator of status of steam boiler resistance (ON or OFF) and steam boiler temperature | 4 | Light indicator of status of cup heater (ON or OFF)  |
| 2 | Light indicator of current hour   | 5 | Alarm signal icon and relevant code. The code refers to the last alarm that has taken place in chronological order |
| 3 | Light indicator of the displayed page   | 6 | Navigation icons through the pages   |



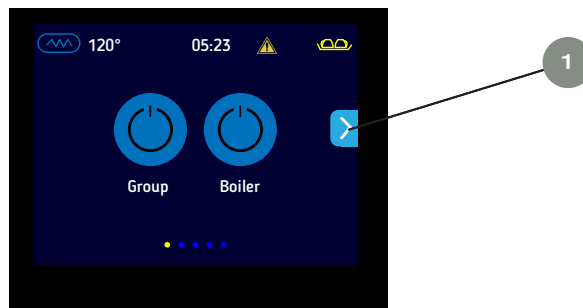
## 5.5 DISPLAY FOR DISPENSING UNIT - COFFEE 2 - 3

- |   |   |   |  |
|---|---|---|--|
| 1 | Light indicator of status of steam boiler resistance (ON or OFF) and steam boiler temperature | 4 | Light indicator of the status of cup heater (ON or OFF)  |
| 2 | Light indicator of current hour   | 5 | Alarm signal icon and relevant code. The code refers to the last alarm that has taken place in chronological order |
| 3 | Light indicator of the displayed page   | 6 | Navigation icons through the pages   |

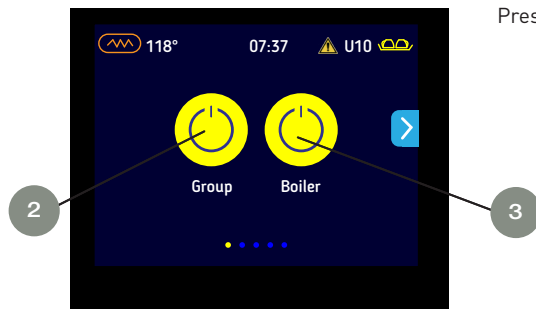


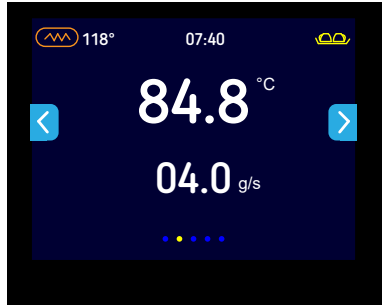
## 5.6 MAIN MENU OF THE DISPENSING UNIT - COFFE 1

By pressing the icon [1] on the main page, you can display the other pages of the main menu.



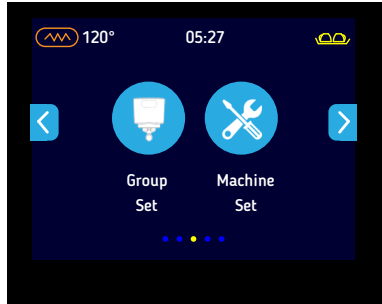
Press the icons [2] or [3] if you want to switch ON this unit (the icon turns yellow).





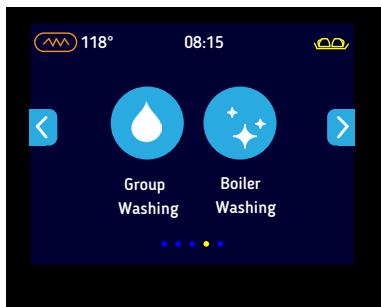
The second page of the main menu displays the set temperature (in °C) and the coffee flow (in g/s).

Press “temperature” on the display to carry out the purging function.



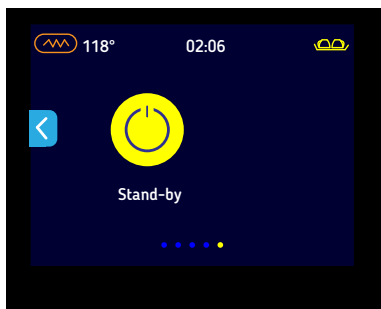
The third page of the main menu allows you to access the following functions:

- Group Set: these pages allow programming the unit.
- Machine Set: these pages allow programming the machine (only if no dosing or cycle is in progress).



The fourth page of the main menu allows carrying out the following operations:

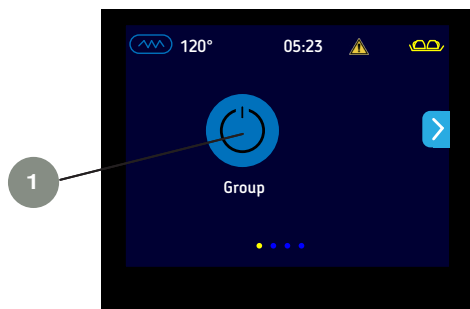
- Group Washing. Clean the unit.
- Boiler Washing. Clean the boiler (only if no dosing or cycle is in progress).

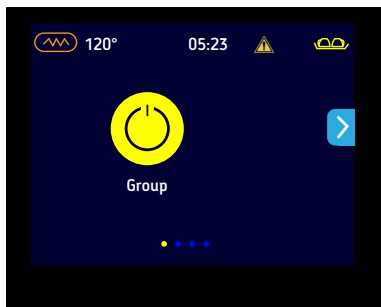


The fifth page of the main menu allows switching off the machine without operating the main switch.

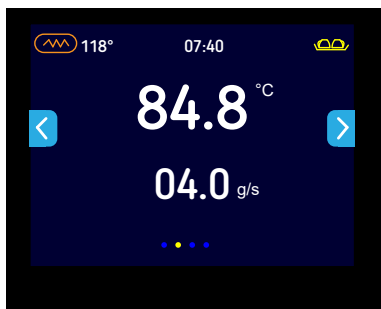
## 5.7 MAIN MENU FOR DISPENSING UNIT – COFFEE 2 - 3

By pressing the icon [1] on the main page, you can display the other pages of the main menu.



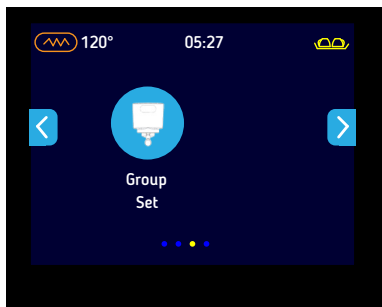


By pressing the Icon "Group", you can switch ON the unit (the icon turns yellow).



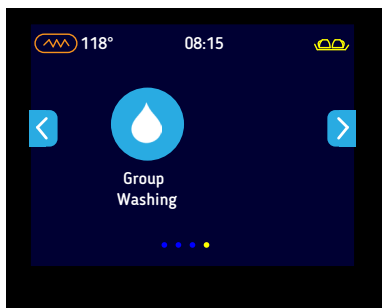
The second page of the main menu displays the temperature (°C) and the coffee steam setting.

Press on the display near the temperature in order to carry out the purging function.



The third page of the main menu allows you to access to these functions:

- Group Set: Pages for setting the unit.



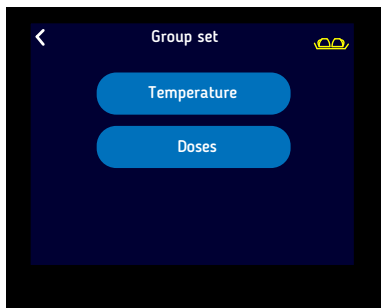
The fourth page of the main menu allows you to:

- Group Washing: carry out the cleaning of the unit.

## 5.8 SETTING THE UNIT



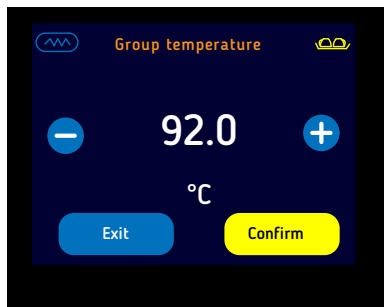
By pressing on the  icon, on the main setting pages, you can display the following pages.



"Temperature": Access to the page for setting the temperature of the unit.

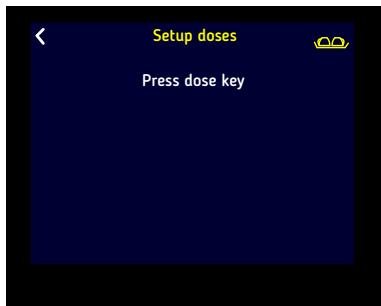
"Doses": Access to the dose setting page.

### 5.8.1 Temperature



The keys “+” and “-” allow you to set the temperature of the unit and to save it by pressing “CONFIRM”.

### 5.8.2 Doses



This adjustment is to be carried out under real working conditions

Press one of the coffee dispensing buttons. The page illustrated to the side are displayed (the key pressed is put in evidence).



This page shows the increment on time (sec.), dose (g/g/s) and quantity of water.

Once the desired values reached, press the button for coffee dispense again save these values.

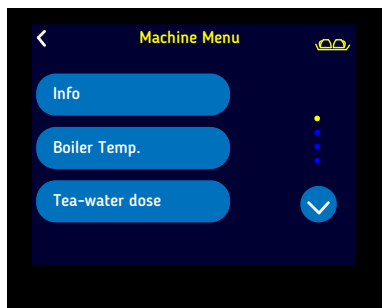
Repeat the same procedure for the second and third key.

If one of the keys has been set as "Purge" or "Continuous Dosage", this procedure is disabled.

## 5.9 SETTING THE MACHINE



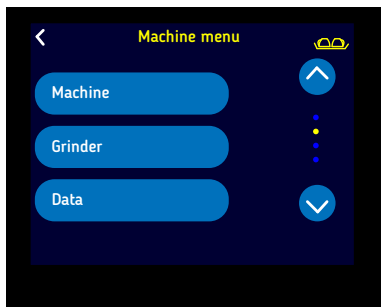
If you press on the icon on the setting pages, you can access to the machine setting page.



“Info”: Access to the setting page of some functions of the machine.

“Boiler temp.”: Access to the page for setting the boiler temperature.

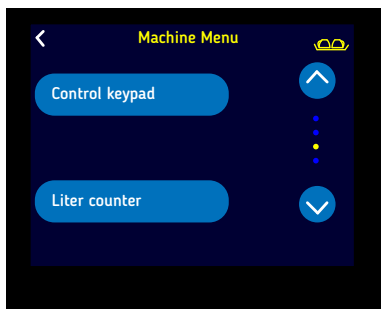
“Tea-water dose”: Access to the page for setting the water-tea doses.



"Machine": access to the setting page of factory default parameters.

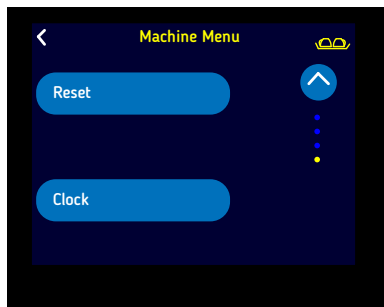
"Grinder": access to the setting page of coffee grinder.

"Data": access to the page for language selection and measure units.



"Control keypad": access to the page for setting the keys of each coffee dispensing unit.

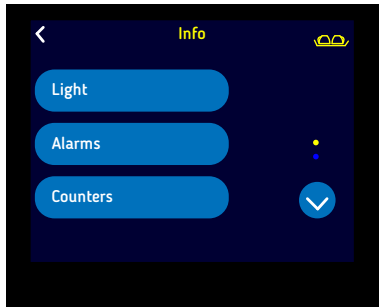
"Liter counter": Access to the page for setting the threshold of the liter counters.



“Reset”: Access to the reset page of machine settings.

“Clock”: access to the page for setting data and hour.

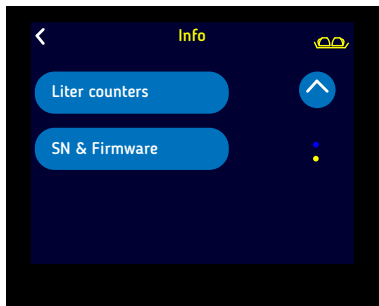
### 5.9.1 Info



"Light": Allows accessing the setup page for light indicators.

"Alarms": Allows accessing the display page for current alarms.

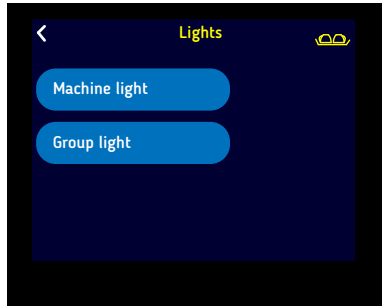
"Counters": Allows accessing the display page for counters.



"Liter counters": Allows accessing the setup page for liter counters.

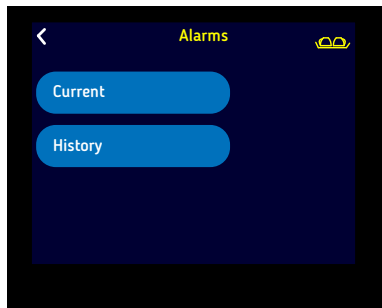
"SN & Firmware": Allows accessing the display page for machine serial data.

## Light



Pressing the "Light" key, will display the following page. It allows switching ON /OFF the machine light indicators.

## Alarms



Pressing the "Alarms" key, will display the following page.

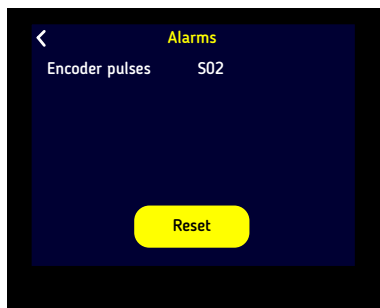
"Current": Allows accessing the machine alarms.

"History": Allows accessing the page of Alarm history

The machine and group alarms are displayed in the coffee 1 dispensing group.

The alarms of the group alone are displayed in the coffee 2 and 3 dispensing group.

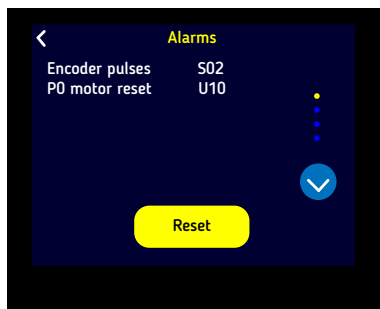
### Current alarms



Pressing the "Current" key, will display the following page. It displays the current alarms on the machine.

To cancel the alarms, just press the "Reset" key.

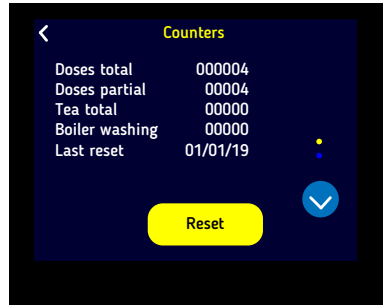
### Alarm history



Pressing the "Alarm history" key, will display the following page. It shows all the alarms occurred on the machine.

To cancel the alarms, just press the "Reset" key.

## Counters



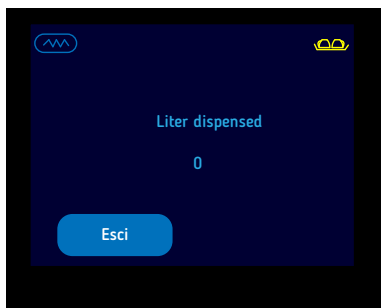
Pressing the “Counters” key, will display the following page. It displays total and partial counters present on the machine.

To reset the partial counters, press the “Reset” key (password-protected key).



The second page of “Counters”, displays the dose counters of each group as well as the number of operations of the lever and number of cleaning cycles performed.

For these counters too, the reset is performed by pressing the “Reset” key (password-protected key).

**Liter counter**

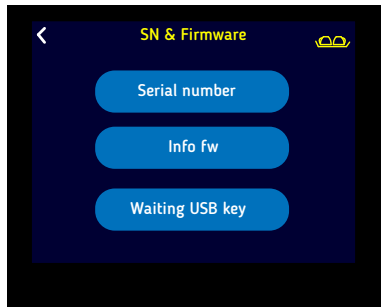
Pressing the “Liter counter”, will display the following page. It allows you to display the quantity (liters) of water dispensed

**Boiler washing**

Pressing the “Boiler cleaning” key, will display the following page. It displays the number of cleaning cycles performed by the boiler.

To perform the reset, press the “Reset” button (password protected).

## SN & Firmware

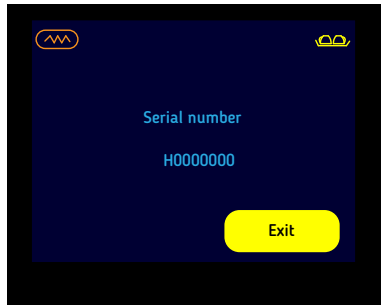


Pressing the “SN & Firmware”, will display the following page.

“Serial number”: Allows accessing the page that displays the serial number of the machine.

“Info fw”: Allows accessing the page that displays the information on the machine firmware.

“Waiting for USB key”: Password-protected function.

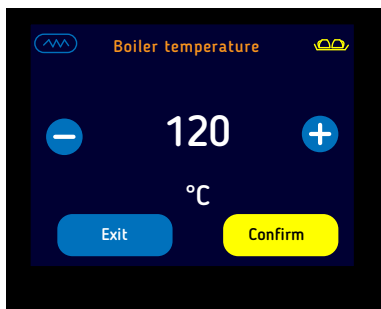


This page displays the machine serial number (this number is the same as the one indicated on the CE plate).



This page displays the firmware of the mother board (first line) and that of the display (second line).

### 5.9.2 Boiler temp.



This page allows you to set the boiler temperature (hot water and steam) through the "+" and "-" keys. Save these values by pressing the "Confirm" key.

### 5.9.3 Water-tea doses



This page allows you to set the water dosing for tea (in seconds) through the “+” and “-” keys.

### 5.9.4 Machine

Password-protected page. It cannot be viewed by the User.

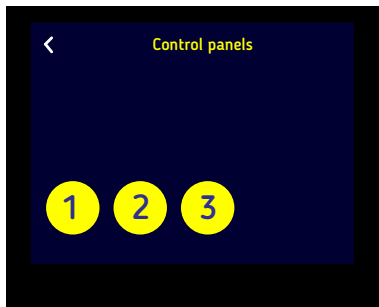
### 5.9.5 Grinder

Password-protected page. It cannot be viewed by the User.

### 5.9.6 Data

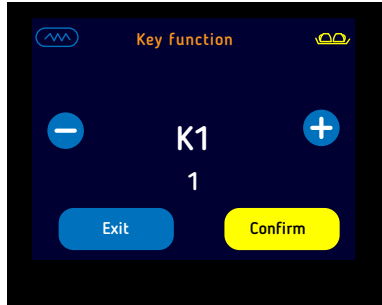
Password-protected page. It cannot be viewed by the User.

### 5.9.7 Control panels



This page allows you to choose the key through which a function is to be set.

Pressing one of these keys, will display the following page.



This page allows you to set the function of each key through the “+” and “-” keys:

K1 - K2 - K3 = dosed dispensing

Continuous

Purging

Press the “Confirm” key to save the selection.

### 5.9.8 Clock



This page allows setting the date and hour through the “+” and “-” keys.

Pressing the “Confirm” key, will save the selection made and will go to the next case.

### 5.9.9 Liter counter

Password-protected page. It cannot be viewed by the User.

### 5.9.10 Maintenance

Password-protected page. It cannot be viewed by the User.

### 5.9.11 Reset

Password-protected page. It cannot be viewed by the User.

### 5.9.12 Test

Password-protected page. It cannot be viewed by the User.

## 5.10 PREPARING A CUP OF ESPRESSO



### NOTA

The secret to always obtain an excellent cup of coffee resides in keeping the portafilters always inserted in the dispensing groups,

This precaution will always keep them at the correct temperature.

In order to prepare an optimum espresso, proceed as follows:

- Unlock the desired portafilter. Do not touch the hot metal parts.
- Clean the inner filter located inside the portafilter and remove any possible coffee residues.
- Pour fresh and properly ground coffee into the filter (1 serving of coffee for each filter, 2 servings for double filter)..
- Press the coffee with the coffee tamper (supplied standard) and purge the shower head.
- Clean the filter edge and eliminate any coffee residues and lock the portafilter into the dispensing group.
- Press one of the two buttons on the group with automatic dosing.



### DANGER

Keep your hands away from hot dispensing groups.

Do not touch the hot metal parts of the dispensing groups and portafilters. Risk of burns.

## 5.11 PREPARING HOT MILK

In order to prepare hot milk, proceed as follows:

- Pour the milk into a jug with handle.
- Insert the steam wand into the jug and open the steam cock (steam lever). When the milk has reached the desired temperature, close the lever-type cock.
- Remove the jug and, with a wet cloth, clean the wand so to prevent any milk incrustations of milk on the wand.
- Address the steam wand towards the basin grid and, protecting yourselves with the wet cloth from any possible steam jets, open the cock again just enough for eliminating all possible milk residues inside the wand.



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### **DANGER**

In order to use the steam wand, use the insulating handle. To avoid any possible burns, do not open the cock before inserting the wand into the milk jug.

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### 5.12 HOT WATER DISPENSING

The machine is equipped with two buttons for time-dosed hot water and tea brewing process. Place a high-temperature resistant container (at least 125°C) beneath the outlet diffuser, than press the appropriate button.



**DANGER**

In order to avoid possible burnings, never press the hot water buttons before placing a recipient under the dispensing wand.

### 5.13 CUP HEATING PAD

Under special environmental conditions, the use of cups not sufficiently heated when brewing coffee results in an instant loss of about 25-50°C which means serving a warm espresso.

To activate this function, press the corresponding button on the control panel.

## 5.14 MCS (OPTION)

The Milk Control System (MCS) consists of an automatic milk heating system that allows obtaining a given quantity of milk heated at a pre-established temperature.

If you wish to use the MCS system, pour a given quantity of cold milk in a jug, place the jug under the MCS wand and then press the relevant button.

When milk has reached the pre-established temperature, the steam dispensing stops automatically and milk is ready to be used.



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### DANGER

Do not use this system if the steam wand points toward the operator or third parties.

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### NOTE

To assure correct working of the MCS system, thoroughly clean the steam wand and its final part after each use. We also advise you to dismantle and clean the final part of the steam wand at least twice a day.

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## 5.15 ALARMS

The machine is equipped with an electronic control that handles all the operational functions and checks correct working of all components.

In case of malfunctioning of one of the functions, this is recorded and/or displayed on the main page.

Some alarms are displayed but not safeguarded by the system because they are irrelevant to the good operation of the machine or to the safety for exposed persons and property.

### 5.15.1 Group alarms

The letter x in the "Code" column indicates the name of the group.

ALARM	CODE	CAUSE	SOLUTION
<b>Timeout contatore volumetrico</b>	<b>AFx</b>	Pulses of counter not read since 6 secs.	It resets if pulses are read again. If not, the "brewing process" alarm will trigger.
<b>Motor pulse failure</b>	<b>AMx1</b>	While motor moves, the relevant pulses are not read	Reset by calibrating the point 0
<b>Motor start alarm</b>	<b>AMx2</b>	Motor has encountered an unexpected mechanical lock	Reset by adjusting the point 0
<b>Minimum boiler temperature of group x, short-circuited sensor</b>	<b>AGx3</b>	Temperature detected is lower than 0°C	Steam distribution shuts off. Press DEL key on the display to cancel the alarm
<b>Maximum boiler temperature of group x, sensor interrupted</b>	<b>AGx2</b>	Temperature detected is higher than 127°C	It resets automatically when temperature goes below 126,5°C
<b>Lever position alarm</b>	<b>ALx1</b>	Wrong lever position while coffee dispensing is not in progress: e.g.: the lever is between two positions	Move the lever to rest position

ALARM	CODE	CAUSE	SOLUTION
<b>Lever serial communication</b>	<b>ALx2</b>	The lever card does not dialogue with the display card for more than 5 secs.	It resets automatically by re-establishing the connection with the display card
<b>Motor point 0 recalibration</b>	<b>AMx3</b>	Motor has not finished the last command imparted; e.g because of power failure; number of pulses out of expected range; last command terminated because of timeout, the barista model has been configured, during the test procedure the motor has been put in motion	Reset by calibrating the point 0. During some phases, this is made automatically
<b>Brewing process timeout</b>	<b>Alx</b>	Pulses of CV not read since 120 secs	To next dose
<b>Motor movement timeout</b>	<b>AMx4</b>	Motor has not reached the position in the expected time	Reset by calibrating the point 0.
<b>Flow calibration error</b>	<b>AMx5</b>	Position of motor encoder lower than 20	Reset by calibrating the flow
<b>Boiler heating timeout</b>	<b>AGx1</b>	Boiler has not reached 40°C within 5 minutes from heating activation	Reset by putting the machine in stand-by and switching it On.

### 5.15.2 Machine alarms

The MCS alarms are reserved.

ALARM	CODE	CAUSE	SOLUTION
<b>Corrupted data</b>	<b>A00</b>	Settings read by the EEPROM are out of given range, the wrong value is replaced by the default one.	Switch OFF the machine and switch it ON again
<b>Boiler heating timeout</b>	<b>AB1</b>	The boiler has not reached 40°C within 10 minutes from heating function activation	Reset by putting the machine in stand-by mode and switching it ON
<b>Minimum temperature of MCS steam wand</b>	<b>AMCS3</b>	Temperature detected is lower than 0°C	Reset by making the calibration. It resets automatically by solving the problem
<b>Maximum temperature of MCS steam wand</b>	<b>AMCS2</b>	Temperature detected is higher than 151°C	It resets automatically by solving the problem
<b>Minimum steam boiler temperature, short-circuited sensor</b>	<b>AB3</b>	Temperature detected is lower than 0°C	Switch OFF the machine and switch it ON again.

ALARM	CODE	CAUSE	SOLUTION
<b>Maximum steam boiler temperature, interrupted sensor</b>	<b>AB2</b>	Temperature detected is higher than or equal to 128°C	Switch OFF the machine and switch it ON again
<b>Minimum level in steam boiler</b>	<b>AL2</b>	Minimum level sensor is uncovered	Resets automatically when the status of sensor covered is detected
<b>Filling timeout</b>	<b>AL1</b>	Maximum level not reached within the set time. First filling timeout 8 secs, next fillings according to the value set in the machine	Switch OFF the machine and switch it ON again.
<b>Filter regeneration alarm</b>	<b>AMAI8</b>	Number of scheduled liters reached	Access the info for liter counter procedure in order to reset the alarm
<b>Maintenance alarm</b>	<b>AMAI2</b>	Date for scheduled maintenance reached	Access the info for maintenance procedure in order to reset the alarm
<b>Clock alarm</b>	<b>A01</b>	Clock reading error since data read not correct	Resets automatically when first correct reading is made
<b>MCS timeout</b>	<b>AMCS1</b>	Set temperature not reached within 60 secs	Resets at next selection for steam wand

ALARM	CODE	CAUSE	SOLUTION
<b>Timeout of cash register serial signal</b>	<b>AS3</b>	No response from cash register within 200 msec.	It resets automatically when next transmission is completed correctly
<b>LCD serial signal alarm</b>	<b>AS1</b>	One of the configured displays is not responding	It resets automatically when next transmission is completed correctly

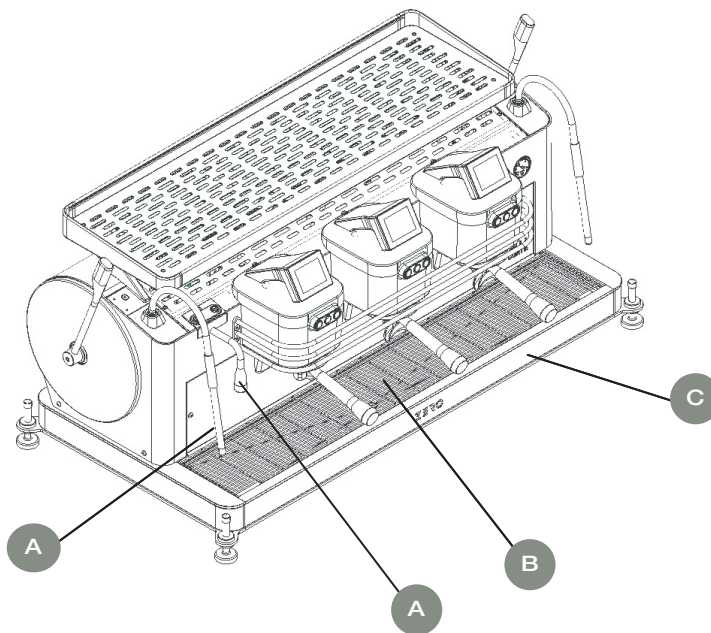
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# 6. MAINTENANCE

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## 6.1 CLEANING THE WANDS AND THE EXTERNAL PARTS OF MACHINE

Clean the wands **(A)** and all external parts of the machine daily, including the grid **(B)** and the basin **(C)**.



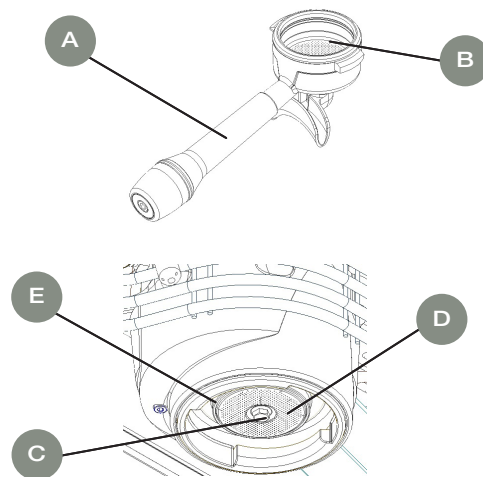
## 6.2 CLEANING THE REMOVABLE PARTS

Clean the portafilter **(A)** and the inner filter **(B)** with water and detergent daily. Separate them before washing.

Unscrew the screw **(C)** with the appropriate spanner.

Remove the shower head **(D)** and the shower head holder **(E)** and wash them with water and detergent.

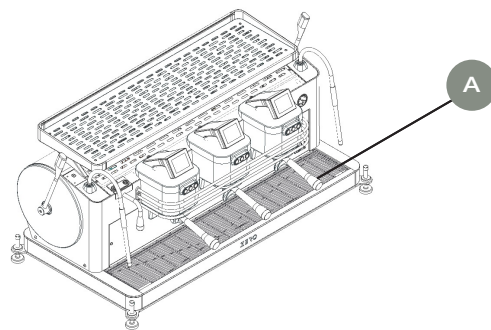
Reinstall the shower head and the shower head holder into their compartment and firmly screw the fastening screw. Pay attention not to damage the thread.



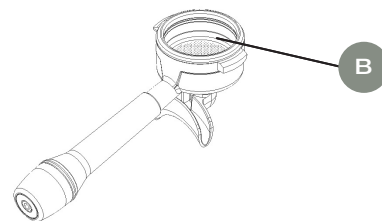
## 6.3 CLEANING THE DISPENSING GROUP

It is possible to run automatic cleaning cycles for cleaning the dispensing group (it lasts approximately 3 minutes). To run these cleaning cycles, proceed as follows:

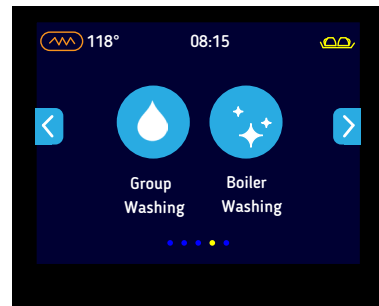
- Unlock the portafilter **(A)** from the group to be cleaned, remove the filter **(B)** and put a blind filter (supplied with the machine) with a detergent tablet (this too supplied with the machine) inside the portafilter.




- Lock the portafilter.



- Open the fourth page of the main menu.

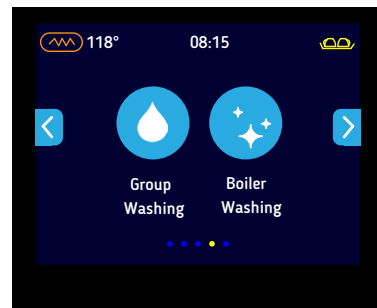



- Press the icon  to run the group washing cycle. The machine performs a washing cycle of the circuit which lasts approximately 3 minutes.
- Do the same for the other 2 groups. Let a small quantity of water to flush out before reinstalling the portafilter and before starting to use the machine.

## 6.4 BOILER WASHING

To be sure that hot water for the brewing process is always clean and drinkable, wash the boiler daily. To perform this operation, proceed as follows:

- Insert a hose (not supplied with the machine) into the drain nozzle for hot water. The other end is to be inserted inside an adequate container or placed on a sink.
- Open the fourth page of the main menu.



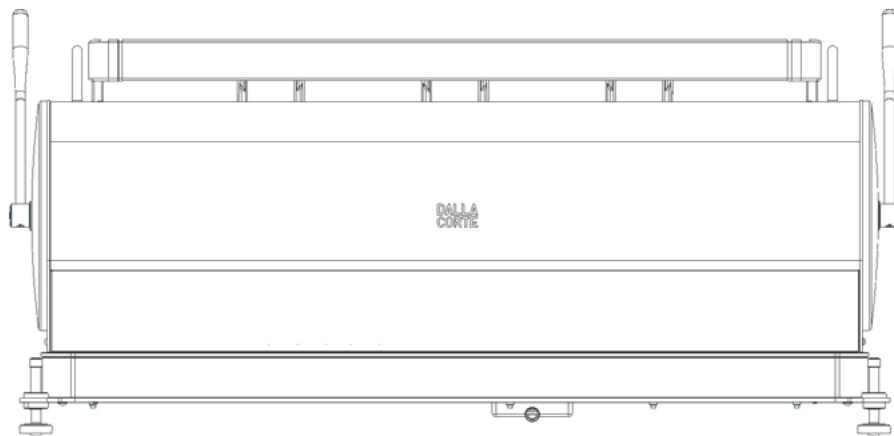
- Press the icon  to wash the boiler.
- The machine will perform a washing cycle of the boiler which lasts approximately 30 minutes. It is recommended to run this cycle at the end of the working day.



**DANGER**

Make sure that the hose used to drain hot water is secured and cannot move. Risk of burns.

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